

Fig. 1

Patent Application No. 10/559,602

200 →

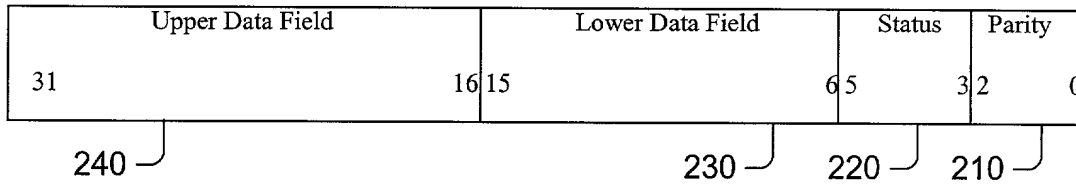


Fig. 2

300 →

DATA_WORD_RANGE	31:0
UPPER_DATA_RANGE	31:16
LOWER_DATA_RANGE	15:6
STATUS_RANGE	5:3
PARITY_RANGE	2:0
DATA_WORD_WIDTH	32
UPPER_DATA_WIDTH	16
LOWER_DATA_WIDTH	10
STATUS_WIDTH	3
PARITY_WIDTH	3

Fig. 3

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reg [DATA_WORD_WIDTH -1:0] data_word;  
reg [UPPER_DATA_WIDTH -1:0] upper_data_field;  
reg [LOWER_DATA_WIDTH -1:0] lower_data_field;  
reg [STATUS_WIDTH -1 :0] status;  
reg [PARITY_WIDTH - 1:0] parity;  
upper_data_field[UPPER_DATA_WIDTH -1:0] = data_word[UPPER_DATA_RANGE];  
lower_data_field[LOWER_DATA_WIDTH -1:0] = data_word[LOWER_DATA_RANGE];  
status[STATUS_WIDTH -1 :0] = data_word[STATUS_RANGE];  
parity[PARITY_WIDTH -1 :0] = data_word[PARITY_RANGE];
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Fig. 4A

450 →

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reg [31:0] data_word;  
reg [15:0] upper_data_field;  
reg [9:0] lower_data_field;  
reg [2:0] status;  
reg [2:0] parity;  
upper_data_field[15:0] = data_word[31:16];  
lower_data_field[9:0] = data_word[15:6];  
status[2:0] = data_word[5:2];  
parity[2:0] = data_word[2:0];
```

Fig. 4B

500

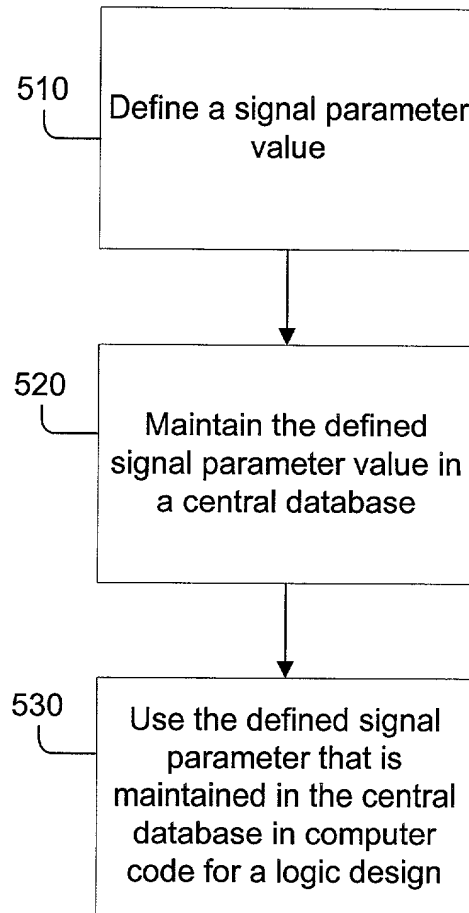


Fig. 5

FIG. 5